

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 08143985
PUBLICATION DATE : 04-06-96

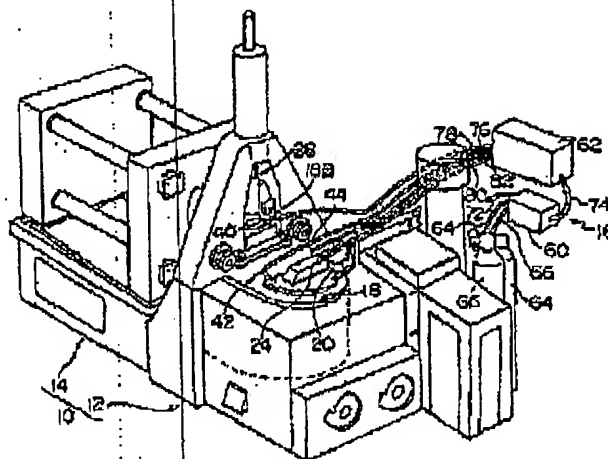
APPLICATION DATE : 24-11-94
APPLICATION NUMBER : 06289988

APPLICANT : TOKAI RIKI CO LTD;

INVENTOR : HIROSE KOJI;

INT.CL. : C22B 26/22 F27B 3/22 F27D 7/02

TITLE : DEVICE FOR INTRODUCING
PROTECTIVE GAS FOR PREVENTING
COMBUSTION OF MOLTEN
MAGNESIUM



ABSTRACT : PURPOSE: To prevent the combustion of molten magnesium and to obviate the corrosion of a melting furnace.

CONSTITUTION: The device 16 to introduce a protective gas for preventing the combustion of molten magnesium connected to the melting furnace 12 of a hot chamber-type die-casting machine 10 with a hose is provided with a gas mixer 60 and a constant flow rate device 62. A gaseous sulfur hexafluoride cylinder 64 and a gaseous carbon dioxide cylinder 66 are connected to the mixer 60 through hoses 68 and 70. An air suction hose 72 is connected to the mixer 60, air, gaseous sulfur hexafluoride and carbon dioxide are mixed in the mixer 60 to synthesize a protective gas for preventing the combustion of molten magnesium, and the concn. of sulfur hexafluoride in the protective gas is controlled to 0.3-0.6%.

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